Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1	1. (Currently amended) A method of aligning a plurality of images, the				
2	method comprising:				
3	providing a marker on a first image and a second image;				
4	overlapping the first image and the second image to match the marker on the first				
5	image with the marker on the second image; and				
6	blending an overlap section of the first image and the second image, including				
7	providing a smooth transition between the first image and second image by selectively providing				
8	from 0% to 100% of the second image; and				
9	computing an absolute difference value between the pixel intensities of the				
10	overlapping portions of the first and second images to validate alignment between the first and				
11	second images.				
1	2. (Original) The method of claim 1 comprising realigning at least one of				
2	the first image and second image if it is determined that the first and second images are				
3	misaligned.				
1	3. (Original) The method of claim 1 wherein the first and second images				
2	are obtained from a digital radiography device.				
	4. (Canceled)				
1	5. (Currently amended) The method of claim 4 wherein blending				
2	comprises: A method of aligning a plurality of images, the method comprising:				
3	providing a marker on a first image and a second image;				
4	overlapping the first image and the second image to match the marker on the first				
5	image with the marker on the second image;				

6	blending an overlap section of the first image and the second image; and
7	computing an absolute difference value between the pixel intensities of the
8	overlapping portions of the first and second images to validate alignment between the first and
9	second images,
10	the blending comprising:
11	computing a pixel intensity of the pixels of first image in the overlap
12	section;
13	computing a pixel intensity of the pixels of the second image in the
14	overlap section that overlap the pixels of the first image in the overlap section; and
15	displaying for each pixel in the overlap section a largest pixel intensity of
16	the overlapping pixels from the first image and second image.
1	(Commentation and and all the months of affecting A subsection blooding
1	6. (Currently amended) The method of claim 4 wherein blending
2	comprises: A method of aligning a plurality of images, the method comprising:
3	providing a marker on a first image and a second image;
4	overlapping the first image and the second image to match the marker on the first
5	image with the marker on the second image;
6	blending an overlap section of the first image and the second image; and
7	computing an absolute difference value between the pixel intensities of the
8	overlapping portions of the first and second images to validate alignment between the first and
9	second images,
10	the blending comprising:
11	computing a pixel intensity of the pixels of first image in the overlap
12	section;
13	computing a pixel intensity of the pixels of the second image in the
14	overlap section that overlap the pixels of the first image in the overlap section; and
15	displaying for each pixel in the overlap section a smallest computed pixel
16	intensity from the overlapping pixels from the first image and second image.

1	7. (Currently amended) The method of <u>claim 1 el</u>	aim 4 wherein blending				
2	comprises:					
3	computing a pixel intensity of the pixels of first image in	the overlap section;				
4	computing a pixel intensity of the pixels of the second in	nage in the overlap				
5	section that overlap the pixels of the first image in the overlap section;	section that overlap the pixels of the first image in the overlap section; and				
6	displaying for each pixel in the overlap section an average pixel intensity of the					
7	overlapping pixels of the first and second images in the overlap section.					
1	8. (Currently amended) The method of <u>claim 1 el</u>	aim 4 wherein blending				
2	comprises providing a smooth transition between the first image and second image by selectively					
3	providing from 0% of the first image to 100% of the first image in the overlap section.					
	9. (Canceled)					
1	10. (Currently amended) The method of claim 1 el	aim 4 wherein the first				
2	and second images comprise a plurality of pixels, each of the pixels have	ing a pixel intensity,				
3	wherein in the overlap section a portion of the pixels in the first image overlap a portion of the					
4	pixels in the second image, wherein the overlap section comprises a first end and a second end,					
5	wherein blending comprises:					
6	displaying 100% of the pixel intensity of the first image at the first end of the					
7	overlap section;					
8	displaying 50% of the pixel intensity of the first image v	vith 50% of the pixel				
9	intensity of the overlapping pixels of the second image at a halfway poi	nt of the overlap section;				
10	and					
11	displaying 100% of the pixel intensity of the second ima	ge at the second end of				
12	the overlap section.					

1	11. (Original) The method of claim to wherein defiding further comprises				
2	displaying pixel intensities from the first image and the second image with a weighting for the				
3	combination which changes in a non-linear manner from the first end of the overlap section to				
4	the second end of the overlap section.				
1	12. (Original) The method of claim 10 wherein blending further comprises				
2	displaying pixel intensities from the first image and the second image with a weighting for the				
3	combination which changes in a linear manner from the first end of the overlap section to the				
4	second end of the overlap section.				
1	13. (Currently amended) A method of stitching a plurality of images, the				
2	method comprising:				
3	providing a marker on a first image and a second image;				
4	overlapping the first image and the second image to create an overlap section,				
5	wherein overlapping matches the marker on the first image with the marker on the second image;				
6	calculating an absolute difference between the pixel intensity values of the				
7	overlapping portions of the first and second images in the overlap section so as to validate				
8	alignment between the first and second images; and				
9	blending the overlap section of the first image and the second image; and				
10	adjusting a position of at least one of the first or second images by a plurality of				
11	fixed steps.				
1	14. (Original) The method of claim 13 wherein the first and second images				
2	are obtained from a digital radiography device.				
1	15. (Currently amended) The method of claim 13 wherein blending				
2	comprises: A method of stitching a plurality of images, the method comprising:				
3	providing a marker on a first image and a second image;				
4	overlapping the first image and the second image to create an overlap section,				
	wherein overlapping matches the marker on the first image with the marker on the second image;				
5	wherein overlapping matches the marker on the first image with the marker on the second image,				

6	calculating an absolute difference between the pixel intensity values of the					
7	overlapping portions of the first and second images in the overlap section so as to validate					
8	alignment between the first and second images; and					
9	blending the overlap section of the first image and the second image, including:					
10	computing a pixel intensity of the pixels of first image in the overlap					
11	section;					
12	computing a pixel intensity of the pixels of the second image in the					
13	overlap section that overlap the pixels of the first image in the overlap section; and					
14	displaying for each pixel in the overlap section a largest pixel intensity of					
15	the overlapping pixels from the first image and second image.					
1	16 (Cymanthy amandad). The mathod of claim 12 wherein blanding					
1	16. (Currently amended) The method of claim 13 wherein blending					
2	comprises: A method of stitching a plurality of images, the method comprising:					
3	providing a marker on a first image and a second image;					
4	overlapping the first image and the second image to create an overlap section,					
5	wherein overlapping matches the marker on the first image with the marker on the second image;					
6	calculating an absolute difference between the pixel intensity values of the					
7	overlapping portions of the first and second images in the overlap section so as to validate					
8	alignment between the first and second images; and					
9	blending the overlap section of the first image and the second image, including:					
10	computing a pixel intensity of the pixels of first image in the overlap					
11	section;					
12	computing a pixel intensity of the pixels of the second image in the					
13	overlap section that overlap the pixels of the first image in the overlap section; and					
14	displaying for each pixel in the overlap section a smallest computed pixel					
15	intensity from the overlapping pixels from the first image and second image.					

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1	17. (Original) The method of claim 13 wherein blending comprises:				
2	computing a pixel intensity of the pixels of first image in the overlap section;				
3	computing a pixel intensity of the pixels of the second image in the overlap				
4	section that overlap the pixels of the first image in the overlap section; and				
5	displaying for each pixel in the overlap section an average pixel intensity of the				
6	overlapping pixels of the first and second images in the overlap section.				
1	18. (Original) The method of claim 13 wherein blending comprises				
2	providing a smooth transition between the first image and second image by selectively providing				
3	from 0% of the first image to 100% of the first image in the overlap section.				
1	19. (Original) The method of claim 13 wherein blending comprises				
2	providing a smooth transition between the first image and second image by selectively providing				
3	from 0% to 100% of the second image.				
1	20. (Original) The method of claim 13 wherein the first and second images				
2	comprise a plurality of pixels, each of the pixels having a pixel intensity, wherein in the overlap				
3	section a portion of the pixels in the first image overlap a portion of the pixels in the second				
4	image, wherein the overlap section comprises a first end and a second end, wherein blending				
5	comprises:				
6	displaying 100% of the pixel intensity of the first image at the first end of the				
7	overlap section;				
7 8	overlap section; displaying 50% of the pixel intensity of the first image with 50% of the pixel				
	•				
8	displaying 50% of the pixel intensity of the first image with 50% of the pixel				
8 9	displaying 50% of the pixel intensity of the first image with 50% of the pixel intensity of the overlapping pixels of the second image at a halfway point of the overlap section;				

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parallel.

21. 1 The method of claim 20 wherein blending further comprises 2 displaying pixel intensities from the first image and the second image with a weighting for the 3 combination which changes in a non-linear manner from the first end of the overlap section to 4 the second end of the overlap section. 1 22. The method of claim 20 wherein blending further comprises (Original) 2 displaying pixel intensities from the first image and the second image with a weighting for the 3 combination which changes in a linear manner from the first end of the overlap section to the 4 second end of the overlap section. 1 23. The method of claim 13 wherein the overlap section is black (Original) 2 when the overlapping pixels of the first image and the second image have the same pixel 3 intensity. 24. The method of claim 23 wherein calculating is in real-time. 1 (Original) 1 25. (Original) The method of claim 13 wherein providing a marker 2 comprises marking a first point on the first image and a second point on the second image, and 3 wherein overlapping comprises matching the first and second points and keeping the orientation 4 of the first and second image fixed. 1 26. (Original) The method of claim 13 wherein providing a marker 2 comprises marking a first point and a first line on the first image and a second point and second 3 line on the second image, wherein superimposing comprises: 4 matching the first points and second points; and

rotating one of the first and second images so that the first line and second line are

- 1 27. (Original) The method of claim 13 wherein providing a marker
 2 comprises marking a first line on the first image and a second line on the second image so that a
 3 last point of the first line and a first point of the second line are matched and wherein
 4 overlapping comprises rotating at least one of the images so as to make the first line and second
 5 line parallel.

 28. (Canceled)
- 1 29. (Currently amended) The method of claim 13 28 wherein the fixed step 2 comprises a one pixel displacement.
- 1 30. (Currently amended) The method of claim 13 28 wherein the fixed steps comprise a 10 pixel displacement.
- 1 31. (Currently amended) The method of claim 13 28-wherein adjusting of 2 the position of the image(s) is made in a fixed step by the use of a keyboard key or combination 3 of keys.
- 1 32. (Currently amended) The method of claim 13 28-wherein the first image 2 is rotated in a plurality of fixed steps by the use of a keyboard key.
- 1 33. (Original) The method of claim 32 wherein the steps comprise a one quarter degree rotation.
- 1 34. (Original) The method of claim 32 wherein the fixed step comprises a one degree rotation.
- 1 35. (Original) The method of claim 32 wherein the fixed step comprises a ten degree rotation.
- 1 36. (Currently amended) The method of claim 13 28 comprising tracking the position of the moved image in real time.

1		37.	(Currently as	mended)	The method of claim 13 28 comprising adjusting a	
2	center of rotation of at least one of the first and second image.					
1 2	and dragging a	38. cursor	. •		od of claim 37 wherein adjusting comprises clicking	
	-					
		39-53.	(Canceled)			
1		54.	(Original) A	A method o	of stitching a plurality of images, the method	
2	comprising:					
3	providing a first image and a second image;					
4	allowing a user to choose one of at least two of the following methods of					
5	marking:					
6			marking a fi	rst point o	n the first image and a second point on the second	
7	image;					
8			marking a fi	rst and sec	ond point on the first image and a third and fourth	
9	point on the se	cond in	nage;			
10			marking a fir	rst point aı	nd a first line on the first image and a second point	
11	and second line	e on the	e second imag	ge;		
12			marking a fi	rst line on	the first image and a second line on the second	
13	image;					
14		markin	g the first im	age and se	cond image with a chosen marker; and	
15		alignin	g the markers	s to stitch t	the first and second images together.	
1		55.	(Original)	The metho	od of claim 54 wherein marking comprises placing	
2	the first point of	on the f	irst image and	d the secor	nd point on the second image, wherein aligning	
3	further compris	ses kee	ping the orier	ntation of t	he first and second image fixed.	

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	56. (Original) The met	hod of claim 54 wherein marking comprises placing
	the first point and the fi	rst line on the first in	mage and the second point and second line on the
second image, wherein aligning comprises matching the first points and second points and			
	rotating one of the first	and second images	so that the first line and second line are parallel.

- 57. (Original) The method of claim 54 wherein marking comprises placing the first point and second point on the first image and the third point and fourth point on the second image, wherein aligning comprises matching the first point with the third point and rotating one of the first image and second image until the second point and fourth points are matched.
- 58. (Original) The method of claim 54 wherein marking comprises placing the first line on the first image and the second line on the second image, wherein aligning comprises overlapping the first line and second line so that a last point of the first line and a first point of the second line are matched, wherein at least one of the first and second images are rotated so as to make the first line and second line parallel.

59-61. (Canceled)

- 62. (Original) A method of measuring an angle of scoliosis, the method
 comprising:

 providing a first radiographic image of at least a portion of the thoracic and upper
 lumbar spine;

 providing a second radiographic image of at least a portion of the lumbar and
 lower thoracic spine;
- stitching the first radiographic image to the second radiographic image; and
 measuring an angle of scoliosis on the stitched radiographic image.

l	63. (Original) The method of claim 62 wherein measuring comprises placing					
2	two lines on the radiographic image and measuring the angle between the two lines.					
l	64. (Original) The method of claim 62 wherein measuring comprises:					
2	drawing a line in a disk space between two thoracic vertebrae parallel to an					
3	inferior surface of an upper vertebrae;					
1	drawing a second line in a disk space between two lumbar vertebrae, parallel to					
5	the inferior surface of an upper lumbar vertebrae;					
6	drawing a line perpendicular to each of the first and second lines such that the					
7	lines intersect; and					
3	calculating the angle at an intersection.					
l	65. (Original) The method of claim 62 comprising blending an overlap					
2	section of the first radiographic image and the second radiographic image.					
l	66. (Original) The method of claim 65 comprising validating a registration					
2	of the first image and second image by displaying an absolute difference between the first image					
3	and second image in the overlap section.					
	67. (Canceled)					
l	68. (Original) A method of stitching a first image and a second image, the					
2	method comprising:					
3	providing at least a first marker on a first image and at least a second marker on					
1	the second image, wherein the first image and second image comprise a plurality of pixels;					
5	matching the first and second markers, wherein matching overlaps a portion of the					
5	first image and a portion of the second image; and					
7	selecting a desired blending method from a plurality of blending methods; and					
3	using the selected blending method to blend the overlapping portions of the first					
)	image and second image.					